

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Previously presented) A method for producing vanillin in cultured *Vanilla planifolia*, which comprises:
  - a) providing a tissue culture of said *Vanilla planifolia*;
  - b) supplementing the culture with a compound selected from the group consisting of malic acid at a concentration of about 3% by weight of the culture medium, 1mM 3,4-dihydroxybenzaldehyde, and 30 µg/ml glycosylated lysozyme; and
  - c) culturing the *Vanilla planifolia* in the presence of the compound, thereby producing vanillin.
2. (Original) The method of claim 1, wherein the tissue culture is an embryo culture.
3. (Canceled).
4. (Previously Presented) A method for producing vanillin in cultured *Vanilla planifolia*, which comprises:
  - a) providing a tissue culture of said *Vanilla planifolia*;
  - b) subjecting the culture to mechanical shear stress for 21 days; and
  - c) adding malic acid at a concentration of between about 1% and 3% by weight of the culture medium.
5. (Previously Presented) The method of claim 4, wherein the culture is supplemented with 3,4-dihydroxybenzaldehyde at a concentration of between about 0.1 and 5 mM.
6. (Previously Presented) The method of claim 4, wherein the culture is supplemented with about 0.01 to about 5% by weight of a compound selected from the group consisting of succinic acid, oxaloacetic acid, citric acid and pyruvic acid.

7. (Previously Presented) The method of claim 4, wherein the culture is supplemented with about 30 µg/ml of glycosylated lysozyme.

8 – 30. (Canceled)

31. (Previously Presented) A cell culture comprising *Vanilla planifolia* cells in a culture medium supplemented with an elicitor of vanillin synthesis selected from the group consisting of malic acid at 0.1-3% by weight, 1mM 3,4-dihydroxybenzaldehyde, and glycosylated lysozyme at about 30 µg/ml, wherein, after about 15 days exposure to the elicitor, the cell culture produces at least twice as much vanillin as a cell culture after 15 days in culture under equivalent conditions, in a culture medium which was not supplemented with the elicitor.

32. (Previously Presented) The cell culture of claim 31, which, after 15 days exposure to the elicitor, produces at least ten times as much vanillin as a cell culture after 15 days in culture under equivalent conditions, in a culture medium which was not supplemented with the elicitor.

33. (Previously Presented) The cell culture of claim 31, wherein the cells are embryo cells.

34. (Previously Presented) The cell culture of claim 31, wherein the cells are root cells.

35 – 43. (Canceled)

44. (Previously Presented) The cell culture of claim 31, which, after 7 days exposure to the elicitor, produces at least ten times as much vanillin as a cell culture after 7 days in culture under equivalent conditions, in a culture medium which was not supplemented with the elicitor.